

REMARKS

Claims 1-27 are now pending in the application, including new Claims 26-27. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

REJECTION UNDER 35 U.S.C. § 102

Claims 1-25 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Halsema (U.S. Pat. No. 6,606,055). This rejection is respectfully traversed.

It is initially noted Claim 1 has been amended to provide in part:

a transmit antenna disposed within a first antenna housing;

a receive antenna disposed within a second antenna housing, said second antenna housing independently mountable from the first antenna housing;

wherein each of said first and second antenna housings are adapted for externally mounting to the mobile platform, said first and second antenna housings being mounted in a front-to-back linear arrangement with respect to each other.

Claims 2 and 3 have been amended to incorporate the changes to Claim 1.

Halsema '055 discloses a phased array antenna structure 22 which includes an n-element array 26 of phased array elements included with an antenna interface unit (AIU) 30. See column 5, lines 4-10. AIU 30 also includes a power converter 74, a controller 42, a transmit/receive module 48 and an input/output module 74a mounted collectively on a mounting plate 76. See Figure 4. Halsema also discloses that the "array 26 is operative with a radome 80." See column 6, line 15. Halsema further discloses a plurality of the phased array antenna structures each including both transmit

and receive modules are disbursed around an aircraft in a manner to provide substantially spherical antenna coverage around the aircraft." See figures 5-8 and column 2, lines 10-14.

Halsema does not disclose separate transmit and receive antennas each disposed within their own transmit and receive antenna housings, respectively. Halsema also does not disclose that separate transmit and receive antenna housings are externally mounted in a front-to-back linear arrangement with respect to each other. Although Halsema discloses a radome as noted above, Halsema's radome is noted as being associated with the phased array elements and is therefore not equivalent to Applicant's housings which completely enclose individual ones of the transmit and receive antennas in addition to the remaining antenna equipment.

Halsema therefore does not anticipate amended Claim 1. The Examiner is respectfully requested to withdraw the 35 U.S.C. § 102(b) rejection of Claim 1. Because amended Claims 2-3 define further equipment enclosed within individual ones of either the transmit or receive antenna housings, Claims 2-3 are not anticipated by Halsema for at least the reasons noted above for Claim 1 and separately because each defines equipment disposed within a common housing with the transmit or receive antennas, which is not disclosed by Halsema. Claim 4 depends from Claim 3 and is therefore not anticipated by Halsema for at least the reasons noted above. The Examiner is respectfully requested to withdraw the 35 U.S.C. § 102(b) rejections of Claim 2-4.

It is initially noted Claim 6 has been amended to recite in part:

a receive antenna housing independently positionable from the transmit antenna housing for enclosing the receive antenna and a receive antenna equipment group;

each antenna housing having a transfer converter to convert said transfer voltage to an antenna operating voltage and each adaptable for external mounting to the mobile platform;

wherein a depth of said transmit and receive antenna housings is determinable by a space envelope of the transmit and receive antennas, said transmit antenna equipment group and said receive antenna equipment group being each positionable adjacent the space envelope of respective ones of the transmit and receive antennas without increasing said depth.

Halsema does not disclose antenna housings adaptable for external mounting to the mobile platform. Halsema also does not disclose a depth of an antenna housing being determinable by a space envelope of either a transmit or a receive antenna. Halsema further does not disclose transmit or receive antenna equipment groups positionable adjacent the respective transmit or receive antennas, such that the equipment groups do not increase the depth of the antenna housing.

Halsema therefore does not anticipate amended Claim 6. The Examiner is respectfully requested to withdraw the 35 U.S.C. § 102(b) rejection of Claim 6. Because Claims 7-15 depend either directly or indirectly from amended Claim 6, Halsema does not anticipate Claims 7-15 for at least the same reasons as noted for Claim 6. The

Examiner is respectfully requested to withdraw the 35 U.S.C. § 102(b) rejections of Claims 7-15.

It is initially noted claim 16 has been amended to recite in part:

at least two antenna discs externally mounted on an aircraft fuselage adjacent and in a fore-aft orientation with respect to each other, each disc forming one of a transmit antenna housing and a receive antenna housing;

the transmit antenna housing and the receive antenna housing each having a plurality of phased array antenna elements disposed therein.

Claims 22-25 have been amended to incorporate the changes to Claim 16.

As noted above, Halsema discloses both transmit and receive antennas disposed in a single envelope. Halsema therefore does not disclose individual transmit and receive antenna housings. Halsema further does not disclose separate transmit and receive antenna housings positioned adjacent and in a fore-aft orientation with respect to each other.

Halsema therefore does not anticipate amended Claim 16. The Examiner is respectfully requested to withdraw the 35 U.S.C. § 102(b) rejection of Claim 16. Because Claims 17-25 depend either directly or indirectly from amended Claim 16, Halsema does not anticipate Claims 17-25 for at least the same reasons as noted for Claim 16. Applicant further notes Claims 22-25 have also been amended to recite and differentiate individual antenna housings. Halsema does not disclose or differentiate separate transmit and receive antenna housings. Halsema therefore does not anticipate

Claims 22-25 for this additional reason. The Examiner is respectfully requested to withdraw the 35 U.S.C. § 102(b) rejections of Claims 17-25.

NEW CLAIMS

New Claims 26 and 27 have been added herein, which are submitted to be in allowable form defining over the cited art of Halsema. The Examiner is respectfully requested to enter new Claims 26 and 27.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

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